Attorney Docket: 3111-420

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	LIU
Application No.	:	10/779,648
Filed	:	February 18, 2004
Title	:	APPARATUS AND METHOD FOR CARRIER FREQUENCY OFFSET AND PHASE COMPENSATION IN COMMUNICATION SYSTEM
Group Art Unit	:	2661
Examiner	:	Unknown
Attorney Docket	:	3111-420

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

TRANSMITTAL COVER SHEET

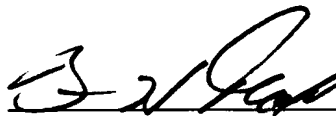Transmitted herewith for filing are the following:

1. CLAIM TO PRIORITY UNDER 35 U.S.C. § 119, along with certified copy of Taiwan Application No. 092103827, filed February 19, 2003.

2. INFORMATION DISCLOSURE STATEMENT, along with Form PTO-1449 (in duplicate) and copies of documents listed thereon.

The Commissioner is hereby authorized to charge any fees which may be required for the filing of this document to **Deposit Account No. 501874**.

Respectfully submitted,

Date: <u>June 30, 2004</u>   By: _____

Bruce H. Troxell
Reg. No. 26,592

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INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 CFR 1.56, and 37 CFR 1.97-1.98, the documents listed on the attached form PTO-1449 are hereby made of record in this patent application.

As this Information Disclosure Statement is being filed prior to the mailing of the first Official Action in this application, no fee is believed due in order to have the enclosed reference considered by the Examiner and made of record in the application.

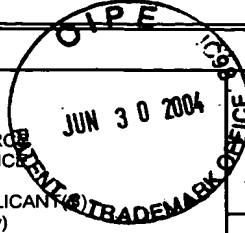Early action on the merits of the application is earnestly solicited.

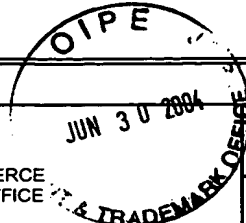Respectfully submitted,

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FORM PTO 1449 (modified)				ATTY DOCKET NO. **3111-420**			APPLICATION NO. **10/779,648**

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: **June 30, 2004**

APPLICANT	**LIU**
FILING DATE **February 18, 2004**	GROUP **2661**

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5285474	Feb. 8, 1994	Chow et al.			

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

		Jack S. Chow, Jerry C. Tu, and J.M. Cioffi, "A Discrete Multitone Transceiver System for HDSL Applications", IEEE J. on Sel Areas in Comm., Vol. 9, No. 6, pp. 895-908, August 1991
		J.S. Chow, J.M. Cioffi, and J.A.C. Bingham, "Equalizer training algorithms for multicarrier modulation system", ICC, pp. 761-765, May 1993
		J.W. Melsa, Richard C. Younce and Charles E. Rohrs, "Impulse Response Shortening for Discrete Multitone Transceivers", IEEE Trans. on Comm., Vol. 44, No. 12, pp. 1662-1672, December 1996
		N. Al-Dhahir and J.M. Cioffi, "Efficiently computed reduced-parameter input-aided MMSE equalizers for ML detection: A unified approach", IEEE Trans. on Info. Theory, Vol. 42, pp. 903-915, May 1996
		N. Al-Dhahir and J.M. Cioffi, "Optimum finite-length equalization for multicarrier transceivers", IEEE Trans. on Comm., Vol. 44, pp. 56-63, Jan. 1996
		Werner Henkel, and Thomas Kessler, "Maximizing the Channel Capacity of Multicarrier Transmission by Suitable Adaptataion of the Time-Domain Equalizer", IEEE Trans. on Comm., Vol. 48, No. 12, December 2000
		Katleen et al., "Per Tone Equalization for DMT-Based Systems", IEEE Trans. on Comm., Vol. 49, No. 1, Jan. 2001
		Guner Arslan et al., "Equalization for Discrete Multitone Transceivers to Maximize Bit Rate", IEEE Trans. on Signal processing.

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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